

# Grinding, Lysing & Homogenizing made easy.

강력하고 효율적인 고성능 샘플 파쇄 시스템



# Bead Mill Homogenizer

Use Cases	Sample	Tubes / Plates	Volume / Result
<ul style="list-style-type: none"> <li>• Rapid dissociation</li> <li>• Harvest internal cellular compounds</li> </ul>	Cells, plants, tissues, dense material (bone, teeth, hair), soil	<ul style="list-style-type: none"> <li>• 2~50ml tubes</li> <li>• SBS format tubes</li> </ul>	<ul style="list-style-type: none"> <li>• 25<math>\mu</math>l~50ml</li> <li>• Particle size: &gt; 1<math>\mu</math>m</li> </ul>

## Bead Ruptor Elite

- 독창적인 3D shaking 방식
  - 터치스크린 인터페이스
  - 안전한 이중 잠금 장치
  - 편리한 전면 샘플 장착 방식
  - 온도 센서 내장으로 실험과정 모니터링 가능
  - 호환 가능한 다양한 tube carriage 사용 가능
- Speed control: 0.8~8m/s
  - Time setting: 1s~9:59minutes
  - Processing range: 25 $\mu$ l~50ml



## Selectable Tube Carriages



48×2ml



24×1.5ml



24×2ml



12×7ml



12×15ml



6×30ml



3×50ml



## BR Cryo Cooling Unit

열에 민감한 샘플(RNA, Protein)의 안전한 파쇄를 위한 현명한 옵션  
균질화 과정 중 샘플 온도가 상승하지 않도록 액체질소 혹은 드라이아이스를 이용하여  
냉각시킨 차가운 공기를 chamber로 전달하여 실험 과정 동안 4°C를 유지 함.

- RNA 및 단백질 분해 방지
- 호환 tube carriage: 1.5ml / 2ml / 7ml
- AIR / AIR 용기 / Regulator 필요



## Bead Ruptor 24

- Capability: 24×2ml (고정식)
- Speed control: 0.8~6.5m/s
- Time setting: 1s~9.59m
- Processing range: 200µl~2ml
- Cryo cooling unit 호환



## Bead Ruptor 12

- Capability: 12×(0.5, 1.5, 2ml), 4×7ml
- Speed control: 0.8~6m/s
- Time setting: 1s~9.59m
- Processing range: 25µl~7ml
- 다양한 사이즈 샘플 동시 처리



## Bead Ruptor 4

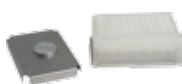
- Capability: 4×(0.5, 1.5, 2ml) or 1×7ml
- Speed control: 1~5m/s
- Time setting: 1s~5m
- Processing range: 25µl~7ml
- 합리적인 크기 및 가격



## Bead Ruptor 96+

- Capability: 0.5, 1.5, 2.0, 25, 50ml tube holder
- Speed control: 3~30Hz
- Time setting: 5s~99m
- Processing range: 25µl~50ml
- 강력해진 모터로 처리 효율 향상
- 향상된 내구성과 정밀한 속도 제어

### Bead Ruptor 96 Accessories



Wellplate  
2×deep / 6×standard



Screw-cap tubes  
48×1.5ml / 48×2ml



50ml tube  
8×50ml



Milling jars  
2×25ml / 2×50ml



Milling balls  
10x10mm / 5x25mm

# Bead mill Homogenizer

**BEST SELLER**



	Bead Ruptor 96+	Bead Ruptor Elite	Bead Ruptor 24	Bead Ruptor 12	Bead Ruptor 4
Maxi. capacity	384	48	24	16	4
Tube capability	0.5, 1.5, 2ml	0.5, 1.5, 2, 7, 15, 30, 50ml	2ml	0.5, 1.5, 2, 7ml	0.5, 1.5, 2, 7ml
Well plates	O	X	X	X	X
Speed control	3~30Hz	0.8~8m/s	0.8~6.5m/s	0.8~6m/s	1~5m/s
Run time	5s~99min	1s~9,59min	1s~9,59min	1s~9,59min	1s~5min
Processing range	25µl~50ml	25µl~50ml	200µl~2ml	25µl~7ml	25µl~7ml
Savable protocols	X	O	O	O	X
Dimensions (WDH, mm)	400×471×256 42kg	381×432×330 30kg	381×432×330 29kg	381×432×330 30kg	215×254×292 7.5kg

## Best of Bead Tube and Bead

다양한 bead 보기 >>



Product name	Cat. No.	Pack size	Application	제조사
2.4mm metal bulk beads	19-640	500g	Hard tissues, dry grinding, skin, muscle, bone, hair, roots, seeds	Omni Inc
1.4mm ceramic bulk beads	19-645	325g	Soft tissues, brain, liver, kidney, spleen, soft plant material	Omni Inc
2.8mm ceramic bulk beads	19-646	325g	Hard tissues, heart, skin, tail, whole organs, hard plant material	Omni Inc
HiQ metal bead, 3mm	A0043	300g	Tissues, dry grinding, skin, muscle, bone, hair, roots, seeds	BioD
HiQ metal bead, 5mm	A0044	300g	Tissues, dry grinding, skin, muscle, bone, hair, roots, seeds	BioD
HiQ ceramic bead, 2.8mm	A0047	300g	Hard tissues, heart, skin, tail, whole organs, hard plant material	BioD
2ml reinforced tubes with 2.8mm ceramic beads	19-628	50/pk	Hard tissues, heart, skin, tail, whole organs, hard plant material	Omni Inc.
HiQ 2ml homogenizing tubes with 2.8mm ceramic beads	A0052	100/pk	Hard tissues, heart, skin, tail, whole organs, hard plant material	BioD
HiQ 7ml homogenizing tubes with ceramic beads	A0059	50/pk	Soft tissues, brain, liver, kidney, spleen, soft plant material	BioD
HiQ 15ml homogenizing tubes with 2.8mm ceramic beads	A0055	50/pk	Tough and fibrous plant material, hard tissues, seeds, feed	BioD
HiQ 50ml homogenizing tubes with 2.8mm ceramic beads	A0058	50/pk	Tough and fibrous plant material, hard tissues, seeds, feed	BioD

# Rotor-Stator Homogenizers

Use Cases	Sample	Tubes / Plates	Volume / Result
<ul style="list-style-type: none"> <li>Emulsification</li> <li>Homogenization</li> <li>Subcellular isolation</li> </ul>	Tissues, soft plants, liquids, powders, no cells.	Process in any open vessel, or blades in sealed containers.	<ul style="list-style-type: none"> <li>~1ml</li> <li>Particle size: &gt; 1~5µm</li> </ul>



## TH Tissue Homogenizer

- 강력한 125 watt 모터
- 쉬운 probe 교체 (커플링 마운트)
- 다양한 타입의 probe와 호환
- Processing range: < 200µl~100ml
- Speed control: Variable from 5,000~35,000rpm
- Sound level: < 72dB

### TH Tissue Compatible Probes

Stainless Steel Probe			Plastic Probes	Hybrid Probe
5×75mm Flat bottom / Flat wide	7×115mm Saw tooth / Saw wide	10×115mm Saw tooth / Saw wide	7×110mm Soft tissue / Hard tissue	7×110mm / 12×110mm Omni tip adapter 필요



## Omni Mixer series

- 강력한 모터 (Mixer: 600W, Macro: 1,800W)
- Cutting blades가 달린 밀폐 챔버 (스탈, 유리, 플라스틱)
- 12개 프로그램 저장 가능 (Macro-ES)
- Homogenizing, blending, and creating emulsions
- Processing range: 0.25ml~50L
- Speed control: 1,000~20,000rpm
- Sound level: < 68dB

### Omni Mixer series Compatible Probes

10mm saw tooth - 95mm - 195mm	20mm saw tooth - 100mm - 145mm/Wide - 195mm/Wide	30mm flat bottom - 195mm - 195mm wide	45mm flat bottom - 195mm - Macro only	55mm flat bottom - 195mm - Macro only
Small tissues	Larger tissues	Large volume emulsions, suspensions, and dispersions for liquid/liquid or solid/liquid sample		

# Multi-Sample Homogenizers

Use Cases	Sample	Tubes	Volume / Result
<ul style="list-style-type: none"> <li>• Emulsification</li> <li>• Homogenization</li> <li>• DPMK, Food/Ag QC</li> </ul>	Tissues, plants, fruits, vegetables, liquids.	5, 15, 30, 50ml open tubes	<ul style="list-style-type: none"> <li>• 250<math>\mu</math>l~40ml</li> <li>• Particle size: &gt; 1~5<math>\mu</math>m</li> </ul>

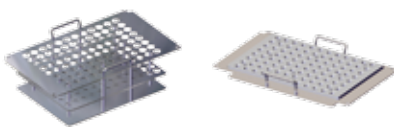


## Omni Prep 96 Automated Homogenizer Workstation

- 24~96개 샘플 자동 균질화
- 사용자의 요구에 맞게 커스텀 프로그래밍 가능
- 초음파를 이용한 probe cleaning
- 강력한 산업용 모터 및 제어부
- Processing range: < 250 $\mu$ l~400ml
- Compatible tube sizes: 2, 5, 14/15, 30 and 50ml
- Speed control: 500~28,000rpm
- Sound level: < 75dB

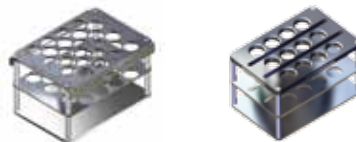
### Omni Prep 96 Accessory

#### Standard Sample Racks



- 15ml $\times$ 96 · 30ml $\times$ 24 · 50ml $\times$ 24
- 2ml $\times$ 96 · 5ml $\times$ 96

#### SBS Sample Rack

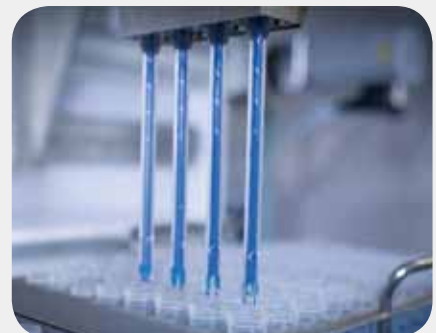


- 5ml $\times$ 24 · 30ml $\times$ 8 · 50ml $\times$ 8
- 15ml $\times$ 12 · 15ml $\times$ 24

#### Compatible Probes

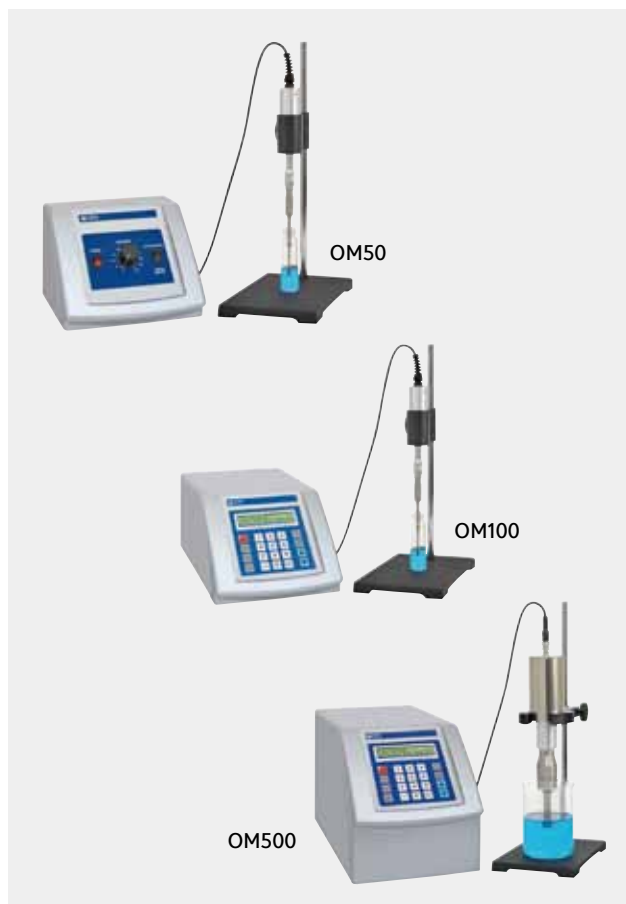


- 7, 12mm plastic disposable
- 5, 7, 10mm stainless steel



# Ultrasonic Homogenizers

Use Cases	Sample	Processing Tip	Volume / Result
<ul style="list-style-type: none"> <li>Nanoparticle dispersion</li> <li>creating emulsion</li> <li>cell disruption</li> </ul>	Cell, liquids.	Micro~ full size (1/16inch~1inch)	<ul style="list-style-type: none"> <li>200<math>\mu</math>l~1L</li> <li>Particle size: 100micron</li> </ul>













## OM50 Sonicator

- Short / continuous run
- 진폭 조절 스위치
- Output frequency: 20kHz
- Power rating: 50W
- Process volume: 200 $\mu$ l~50ml
- Timer: 0~15min

## OM100/ OM500 Sonicator

- Digital amplitude / intensity control
- 온도에 민감한 샘플을 위한 pulse 모드
- 실시간 에너지 모니터링(W/J)
- Power rating: 100W / 500W
- Process volume: 200 $\mu$ l~1,000ml
- Timer: 10hours
- Pulse mode: 1sec~1min

## Ultrasonic Probe and Accessories

				
1/16inch (1.6mm)	1/8inch (3.2mm)	1/4inch (6.4mm)	Support Stand	Heavy Duty Stand
200 $\mu$ l~5ml	500 $\mu$ l~15ml	10ml~50ml	Height: 61cm	Platform: 15 $\times$ 15 $\times$ 6cm
Amplitude: 200 $\mu$ m	Amplitude: 180 $\mu$ m	Amplitude: 120 $\mu$ m	Support rod/base	Adjustable jack
				
1/2inch (12.7mm)	3/4inch (19.1mm)	1inch (25.4mm)	Replaceable Tips	Sound Enclosure
20ml~250ml	50ml~500ml	100ml~1,000ml	3/4inch, 1/2inch, /1inch	Reduces 20dB
Amplitude: 120 $\mu$ m	Amplitude: 60 $\mu$ m	Amplitude: 30 $\mu$ m	for OM500 standard probes	Support rod, mounting system

**(주)바이오디**

(우.14322) 경기도 광명시 하안로 60  
광명테크노파크 A동 1101, 1102호

**구매문의**

T\_ 02.6264.3399

F\_ 02.6264.3400

E\_ 고객\_cs@biod.co.kr

업체\_ds@biod.co.kr

**[www.biod.co.kr](http://www.biod.co.kr)**

